

APPENDIX A

**IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF TEXAS
WACO DIVISION**

WSOU INVESTMENTS, LLC d/b/a BRAZOS
LICENSING AND DEVELOPMENT,

Plaintiff,

v.

DELL TECHNOLOGIES INC., DELL INC.,
EMC CORPORATION, AND VMWARE,
INC.,

Defendants.

Case No. 6:20-cv-00485-ADA

JURY TRIAL DEMANDED

**LETTER OF REQUEST: REQUEST FOR INTERNATIONAL JUDICIAL ASSISTANCE
PURSUANT TO THE HAGUE CONVENTION OF 18 MARCH 1970 ON THE TAKING
OF EVIDENCE ABROAD IN CIVIL OR COMMERCIAL MATTERS**

GREETINGS:

1. Sender	The Honorable Judge Alan D Albright, District Judge United States District Court for the Western District of Texas, Waco Division 800 Franklin Avenue Room 301 Waco, Texas 76701 USA
2. Central Authority of the Requested State	In compliance with provisions of the Code of Civil Procedure of the requested state, the letter of request may be addressed to: The Registrar Honourable High Court of Karnataka at Bangalore Ambedkar Veedhi Bengaluru Karnataka
3. Person to whom the executed request is to be returned	The executed request Court; representatives of the parties as indicated below; the witnesses from whom evidence is requested as indicated below; such other

	<p>person(s) that you deem proper; and Defendants's legal counsel in India:</p> <p>Aditya Vikram Bhat, Advocate AZB & Partners, 7th Floor, Embassy Icon, Infantry Road, Bangalore – 560 001 Tel: 9845520982</p>
4. Specification of the date by which the requesting authority requires receipt of the response to the Letter of Request	June 1, 2021

In conformity with Article 3 of the Hague Convention on the Taking of Evidence Abroad in Civil or Commercial Matters (“Hague Convention”), Federal Rule of Civil Procedure 28(b), and 28 U.S.C.A. 1781(b), the undersigned authority respectfully has the honor to submit the following request:

5. a. Requesting Judicial Authority (Article 3, a)	<p>The Honorable Judge Alan D Albright, District Judge United States District Court for the Western District of Texas, Waco Division 800 Franklin Avenue Room 301 Waco, Texas 76701 USA</p>
b. To the competent Authority of (Article 3, a)	<p>India.</p> <p>Prusuant to Order 26 Rule 19 of the (Indian) Code of Civil Procedure 1908, since the proposed witness resides in the city of Bangalore, the Honourable High Court of Karnataka at Bangalore would be competent to receive the request and issue commission in terms of the request.</p>
c. Names of the case and any identifying number	<p><i>WSOU Investments LLC v. Dell Technologies Inc.</i> Case No. 6:20-cv-00485-ADA, United States District Court for the Western District of Texas</p>

6. Names and addresses of the parties and their representative (including representatives in the requested State) (Article 3, b)	
a. Plaintiffs	WSOU Investments LLC
Representatives	<p>WSOU is represented by:</p> <p>Brett Aaron Mangrum Etheridge Law Group 2600 East Southlake Blvd., Suite 120-324 Southlake, TX 76092 469-401-2659 Fax: 817-887-5950 Email: brett@etheridgelaw.com</p> <p>Jeffrey Huang Etheridge Law Group PLLC 2600 East Southlake Blvd Suite 120-324 Southlake, TX 76092 408-797-9059 Fax: 817-887-5950 Email: jhuang@etheridgelaw.com</p> <p>Ryan Scott Loveless Etheridge Law Group PLLC 2600 E Southlake Blvd Suite 120-324 Southlake, TX 76092 972-292-8303 Fax: 817-887-5950 Email: ryan@etheridgelaw.com</p> <p>James L. Etheridge Etheridge Law Group, PLLC 2600 E. Southlake Blvd., Suite 120-324 Southlake, TX 76092 817-470-7249 Fax: 817-887-5950 Email: jim@etheridgelaw.com</p>
b. Defendants	Dell Technologies Inc., Dell Inc., EMC Corporation, and VMware Inc. (collectively “Defendants”)

Representatives	<p>Dell Technologies Inc., Dell Inc., EMC Corporation, and VMware Inc. are represented by:</p> <p>Gibson, Dunn & Crutcher LLP:</p> <p>Benjamin Hershkowitz Brian A. Rosenthal Allen Kathir Kyanna Sabanoglu GIBSON, DUNN & CRUTCHER LLP 200 Park Avenue New York, NY 10036-5306 Telephone: (212) 351-2410 Email: BHershkowitz@gibsondunn.com BRosenthal@gibsondunn.com AKathir@gibsondunn.com KSabanoglu@gibsondunn.com</p> <p>Y. Ernest Hsin Jaysen S. Chung GIBSON, DUNN & CRUTCHER LLP 555 Mission St., Ste. 3000 San Francisco, CA 94105-0921 Telephone: (415) 393-8200 Email: EHsin@gibsondunn.com JSChung@gibsondunn.com</p> <p>Ryan K. Iwahashi GIBSON, DUNN & CRUTCHER LLP 1881 Page Mill Rd. Palo Alto, CA 94304-1211 Telephone: (650) 849-5300 Email: RIwahashi@gibsondunn.com</p> <p>The Defendant has appointed legal counsel in India to pursue and assist with the commission to take evidence. The details of the Defendant's legal counsel in India are:</p> <p>Aditya Vikram Bhat, Advocate AZB & Partners, 7th Floor, Embassy Icon Infantry Road, Bangalore – 560 001 Tel: 9845520982</p>
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c. Other parties	N/A
Representatives	N/A
7. a. Nature of the proceedings (divorce, paternity, breach of contract, product liability, etc.) (Article 3, c)	Civil action alleging patent infringement under the patent laws of the United States.
b. Summary of complaint	Discovery sought in this Letter of Request is relevant in Case No. 6:20-cv-00485-ADA: In WSOU's complaint against Defendants, WSOU alleges that Defendants infringe U.S. Patent No. 7,636,309 ("the '309 patent").
c. Summary of defense and counterclaim	<p>In defense against WSOU's claims of patent infringement of the '309 patent, Defendants assert, <i>inter alia</i>, that they do not infringe any of claims of the '309 patent and that the '309 patent is invalid.</p> <p>Harsha Nagesh has knowledge of facts that are relevant to Defendants' defenses. Harsha Nagesh is relevant to the action by virtue of being an inventor the '309 patent. Harsha Nagesh holds critical facts to this case, including facts relevant to a number of defenses raised by Defendants and any potential damages, including information related to the prosecution of the '309 patent; prior uses and/or sales or products and services incorporating the '309 patent, publications related to the concepts claimed in the '309 patent; commercialization, production and/or commercial embodiments related to the '309 patent; the state of the art at the time of the alleged invention and/or filing of the applications related to the '309 patent; the ownership and financial interests in the '309 patent; conception, diligence and/or reduction to practice of the concepts claimed in the '309 patent; and the disclosure of the claimed invention of the asserted patent. As well as licensing of and/or agreements covering the '309 patent. And, financial knowledge including valuation and royalties associated with the '309 patent or any license and/or agreement covering</p>

	the '309 patent; and other financial interests (including revenue, costs, expenses and profits) as well as financial interests and information related to the '309 patent.
d. Other necessary information or documents	<p>Harsha Nagesh's current address is:</p> <p>Amazon Development Centre (India) Private Limited 26/1 Brigade Gateway, Dr Rajkumar Rd, Malleshwaram, Bengaluru, Karnataka 560055, India</p>
8. a. Evidence to be obtained or other judicial act to be performed (Article 3d),	<p>In order to present its defenses that the '309 patent is not infringed, invalid, and unenforceable and to determine any alledged damages, Defendants seek certain documents from Harsha Nagesh. Attached as Exhibit A1 is a request of production of certain documents that Defendants believe are likely to be in the possession, custody, or control of Harsha Nagesh.</p> <p>To further clarify the evidence sought, attached as Exhibit A2 is an outline of the topics and issues about which counsel for Defendants intend to inquire of Harsha Nagesh.</p>
b. Purpose of the evidence or judicial act sought	<p>With respect to the '309 patent, Harsha Nagesh has information and knowledge relating to the prosecution of the '309 patent; prior uses and/or sales or products and services incorporating the '309 patent, publications related to the concepts claimed in the '309 patent; commercialization, production and/or commercial embodiments related to the '309 patent; the state of the art at the time of the alleged invention and/or filing of the applications related to the '309 patent; the ownership and financial interests in the '309 patent; conception, diligence and/or reduction to practice of the concepts claimed in the '309 patent; and the disclosure of the claimed invention of the asserted patent. As well as licensing of and/or agreements covering the '309 patent. And, financial knowledge including valuation and royalties associated with the '309 patent or any license and/or</p>

	<p>agreement covering the '309 patent; and other financial interests (including revenue, costs, expenses and profits) as well as financial interests and information related to the '309 patent.</p> <p>This evidence is directly relevant to Defendants' claims that the '309 patent is not infringed, invalid, and unenforceable and to determine any alleged damages under United States patent law.</p>
9. Identity and address of any person to be examined (Article 3, e)	<p>Harsha Nagesh</p> <p>Amazon Development Centre (India) Private Limited 26/1 Brigade Gateway, Dr Rajkumar Rd, Malleshwaram, Bengaluru, Karnataka 560055, India</p>
10. Questions to be put to the persons to be examined or statement of the subject matter about which they are to be examined (Article 3, f)	<p><i>See Exhibit A2</i></p>
11. Documents or other property to be inspected (Article 3, g)	<p><i>See Exhibit A1</i></p>
12. Any requirement that the evidence be given on oath or affirmation and any special form to be used (Article 3, h)	<p>We respectfully request that the testimony be taken under oath.</p>
13. Special methods or procedure to be followed (e.g. oral or in writing, verbatim, transcript or summary, cross-examination, etc.) (Article 3, i) and 9)	<p>This Court respectfully requests that Harsha Nagesh be directed to produce the documents identified in attached Exhibit A1.</p> <p>This Court respectfully requests that the Central Authority direct the witness to appear on or before June 1, 2021.</p> <p>This Court respectfully requests that attorneys of the</p>

	<p>Defendant be permitted to examine and cross-examine the witness, and that the witness be directed to answer such questions, relating to matters outlined in attached Exhibit A2.</p> <p>This Court respectfully requests that the examination be permitted to be conducted in accordance with the Federal Rules of Evidence and the Federal Rules of Civil Procedure to prevail in the event of a conflict.</p> <p>This Court respectfully requests that the examination be (partially) conducted via video conference to allow U.S. counsel to join the hearing.</p> <p>This Court respectfully requests that the testimony be video recorded and also transcribed verbatim.</p> <p>This Court respectfully requests that the testimony be taken in English language if the examined person(s) agree, and that, if need be, simultaneous translation be provided.</p> <p>Costs incurred in relation to the deposition examination (court reporter, video recorder, simultaneous translation) shall be at Defendants' expense.</p>
<p>14. Request for notification of the time and place for the execution of the Request and identity and address of any person to be notified (Article 7)</p>	<p>This Court respectfully requests that you notify this Court; the representatives of the parties as indicated above; the witness from whom evidence is requested as indicated above; and such other person(s) that you deem proper.</p>
<p>15. Request for attendance or participation of judicial personnel of the requesting authority at the execution of the Letter of Request (Article 8)</p>	<p>No judicial personnel of the requesting authority will attend or participate.</p>
<p>16. Specification of privilege or duty to refuse to give evidence under the law of the State of origin (Article 11, b)</p>	<p>Defendants believe that Harsha Nagesh does not benefit from any privilege, and does not endorse the assertion of any such privilege or duty.</p>

17. The fees and costs incurred which are reimbursable under the second paragraph of Article 14 or under Article 26 of the Convention will be borne by	Defendants will bear the reimbursable costs associated with this request in accordance with the provisions of the Hague Convention.
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So ORDERED and SIGNED this ____ day of _____, 2020.

The Honorable Alan D Albright
U.S. District Court Judge

EXHIBIT A1

DOCUMENTS REQUESTED

Defendants Dell Technologies Inc., Dell Inc., EMC Corporation, and VMware, Inc. (collectively, “Defendants”) request the production of the documents described below.

DEFINITIONS

The following definitions are applicable to terms employed in responding to this request:

1. “Accused Product” or “Accused Products” shall refer to any device, product, or other thing that Plaintiff is permitted to accuse of infringing the Asserted Patent in this Action. A copy of the Complaint in case number 6:20-cv-00485-ADA is attached as Exhibit A3. In referring to any device, product, or other thing as an “Accused Product,” Defendants in no way communicate their agreement that it infringes the Asserted Patent.
2. “Action” shall refer to the above-captioned proceeding in the United States District Court for the Western District of Texas, with case number 6:20-cv-00485-ADA.
3. “Asserted Claim” shall refer to each claim of the Asserted Patent that Plaintiff contends Defendants infringe.
4. “Asserted Patent” shall refer to U.S. Patent No. 7,636,309 and any patent applications related thereto.
5. “Communication” shall mean, without limitation, any written, oral, or other transmission of information, including but not limited to emails.
6. “Complaint” shall refer to the Complaint (including exhibits) that Plaintiff filed on June 2, 2020 as docket number 1 in this Action, as may be amended.
7. “Concerning,” “refer(s) to,” “related to,” “reflecting,” and “relating to” shall mean directly or indirectly relating to, referring to, mentioning, reflecting, pertaining to, evidencing, illustrating, involving, describing, discussing, commenting on, embodying, responding to,

supporting, contradicting, or constituting (in whole or in part), as the context makes appropriate.

8. “Defendants” or “Defendant” shall refer to Dell Technologies Inc., Dell Inc., EMC Corporation, and VMware, Inc., and any and all of their then-current or prior subsidiaries, parents, affiliates, divisions, successors, predecessors, agents, employees, representatives, directors, officers, trustees, and attorneys, or any other person or entity acting in whole or in part in concert with any of the foregoing, directly or indirectly.
9. “Document” shall include, without limitation, all documents, electronically stored information, and tangible things within the scope of the Federal Rules of Civil Procedure, including Rule 34. Federal Rules of Civil Procedure 34 permits discovery of: “(A) documents or electronically stored information—including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations—stored in any medium from which information can be obtained either directly or, if necessary, after translation by the responding party into a reasonably usable form; or (B) any designated tangible things.”
10. “Employee” shall refer to any officer, director, partner, employee, representative, or agent.
11. “Licensee(s)” shall refer to any entity having a license, assignment, covenant not to sue, or other understanding, written, oral or implied, that the entity has any rights to the Asserted Patent, any Related Patents, or any Related Applications, may practice one or more claims of the Asserted Patent and/or that Plaintiff will not file suit or otherwise enforce against that entity one or more claims of the Asserted Patent or any Related Patent or Related Application.

12. “Named Inventor” shall refer to any individual who is listed as an inventor on the Asserted Patent or any Related Patent or Related Application thereof.
13. “Person” shall refer to any natural person, firm, association, partnership, government agency, corporation, proprietorship, or other entity and its officers, directors, partners, employee, representatives, and agents.
14. The terms “Plaintiff,” and/or “WSOU” shall refer to the responding Plaintiff WSOU Investments, LLC d/b/a Brazos Licensing and Development, and any and all of its then-current or prior subsidiaries, parents, affiliates, divisions, successors, predecessors, agents, employees, representatives, directors, officers, trustees, and attorneys, or any other person or entity acting in whole or in part in concert with any of the foregoing, directly or indirectly.
15. “Prior Art” encompasses, without limitation, the subject matter described in each and every subdivision of 35 U.S.C. §§ 102 and 103, and includes, but is not limited to, memoranda, notes, manuals, interviews, testing data, disclosures, prototypes, correspondence, drawings, papers, articles, patents, printed publications, public uses, demonstrations, offers for sale or license, and sales.
16. “Related Application(s)” means any and all applications related to the Asserted Patent, including any provisional or non-provisional applications, continuations, continuations-in-part, divisions, interferences, reexaminations, re-issues, parents, foreign counterpart applications, and any other applications disclosing, describing or claiming any invention disclosed, described or claimed in the Asserted Patent, or claiming the benefit of the filing date of any application whose benefit is claimed in the Asserted Patent, whether or not abandoned and whether or not issued.

17. “Related Patent(s)” means any and all U.S. or foreign patents based upon or related to any Related Application(s) or Asserted Patent, including any patents or applications that may have been opposed, reexamined, re-issued or subjected to any validity or nullity proceeding.
18. “Third Party” shall refer to any person other than Plaintiff or Defendants.
19. “You,” “Your,” “Yours” shall refer to Harsha Nagesh, and any and all of its then-current or prior subsidiaries, parents, affiliates, divisions, successors, predecessors, agents, employees, representatives, directors, officers, trustees, and attorneys, or any other person or entity acting in whole or in part in concert with any of the foregoing, directly or indirectly.
20. “Product(s)” means a machine, manufacture, apparatus, device, instrument, mechanism, appliance, software, service, process, or an assemblage of components/parts (either individually or collectively) that are designed to function together electronically, mechanically, or otherwise, including any offered for sale or under development.
21. Any pronouns shall be construed to refer to the masculine, feminine, or neutral gender, in singular or plural, as in each case is most appropriate.
22. The singular form of any word shall be construed to also include the plural, and vice-versa.
23. The word “each” shall be construed to mean “each and every.”
24. The words “and” and “or” shall be construed conjunctively or disjunctively, whichever makes the request more inclusive.
25. The words “any” and “all” shall be construed to mean “any and all.”

INSTRUCTIONS

1. In responding to the document requests set forth below, please furnish all responsive and non-privileged information that is available to You.

2. If production of any responsive Documents are being withheld on the ground of the attorney-client privilege, attorney work product, or any other privilege, immunity, or protection, please provide a privilege log with the following information for each such Document: (a) the name of the Document; (b) the name of the person(s) who prepared the Document; (c) the name of the person(s) to whom the Document was directed or circulated; (d) the date(s) on which the Document was prepared or transmitted; (e) the name of the person(s) now in possession of the Document; (f) a description of the subject matter of the Document; and (g) the specific nature of the privilege or protection claimed with respect to the Document.
3. The Court's interim protective order in the Order Governing Proceedings entered in this manner shall govern the disclosure of confidential information in this Action. *See* Exhibit A4 at pp. 3–4.
4. Upon entry of a final protective order in this manner that protective order shall govern the disclosure of confidential information in this Action.

DOCUMENT REQUESTS

1. Documents and Communications concerning the preparation, filing, or prosecution of any of the patent applications related to the Asserted Patent.¹ This includes, but is not limited to:
 - a. Drafts of the patent applications, drawings, and documents in the

¹ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as prosecution history estoppel, non-infringement, invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement), and inequitable conduct. Such materials will also be relevant to defenses relating to damages, including the availability of non-infringing alternatives.

possession, custody, or control of You or any attorney or agent involved in the prosecution of the Asserted Patent, except to the extent these documents are entitled to attorney-client privilege or work product protection;

- b. Patents, patent applications, or other publications reviewed in connection with the prosecution by anyone who participated in the prosecution of the Asserted Patent;
- c. Prior Art cited or considered in connection with the prosecution of the Asserted Patent;
- d. Memoranda and Communications regarding the prosecution of the Asserted Patent; and
- e. Documents referring or relating to or evidencing any decision by You, on Your behalf, or that you are aware of regarding what documents (including without limitation patents or printed publications) to cite during prosecution of the Asserted Patent.

2. Documents and Communications concerning the preparation, filing, or prosecution of any of the patent applications related to Related Patents and Related Applications.² This includes, but is not limited to:

- a. Drafts of patent applications, drawings, and documents in the possession,

² Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as prosecution history estoppel, non-infringement, invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement), and inequitable conduct. Such materials will also be relevant to defenses relating to damages, including the availability of non-infringing alternatives.

custody, or control of You or any attorney or agent involved in the prosecution of any Related Patents or Related Applications, except to the extent these documents are entitled to attorney-client privilege or work product protection;

- b. Patents, patent applications, or other publications reviewed in connection with the prosecution by anyone who participated in the prosecution of any Related Patents or Related Applications;
- c. Prior Art cited or considered in connection with the prosecution of any Related Patents or Related Applications;
- d. Memoranda and Communications regarding the prosecution of any Related Patents or Related Applications; and
- e. Documents referring or relating to or evidencing any decision by You, on Your behalf, or that you are aware of regarding what documents (including without limitation patents or printed publications) to cite during prosecution of any Related Patents or Related Applications.

3. Documents and Communications related to each effort by You, on Your behalf, or that you are aware of to obtain patent protection, in the United States or in the countries designated in the PCT application for the Asserted Patent, for the subject matter described and/or claimed in the Asserted Patent, covering the period from June 28, 2005 through the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.³

³ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement, and invalidity (including obviousness, secondary

4. Communications, studies, comparisons, reports, surveys, evaluations, opinions, or memorandums regarding the conception of the subject matter described and/or claimed in the Asserted Patent, prior to June 28, 2005.⁴

5. Communications, studies, comparisons, reports, surveys, evaluations, opinions, or memorandums regarding the testing, design, and development of the subject matter described and/or claimed in the Asserted Patent, prior to the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.⁵

6. Communications, studies, comparisons, reports, surveys, evaluations, opinions, or memorandums regarding the reduction to practice of the subject matter described and/or claimed in the Asserted Patent, prior to the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.⁶

7. Statements, articles, abstracts, publications, and Product literature made by, or

considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement).

⁴ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to defenses, such as improper inventorship, derivation, and inequitable conduct.

⁵ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to defenses, such as improper inventorship, derivation, and inequitable conduct.

⁶ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to defenses, such as improper inventorship, derivation, and inequitable conduct.

under the direction of, any of the Named Inventors concerning the subject matter described and/or claimed in the Asserted Patent, prior to the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.⁷

8. Laboratory notebooks, technical memoranda, technical files, diaries, appointment calendars, and trip reports, in complete unredacted form, of the Named Inventors, or made under the direction of the Named Inventors, concerning the subject matter described and/or claimed in the Asserted Patent, prior to the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.⁸

9. Documents sufficient to identify any Person (whether or not named as an inventor) involved in the conception, research, testing, design, development, and reduction to practice of any element of any of the inventions described and/or claimed in the Asserted Patent, and to understand their role, prior to the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.⁹

⁷ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to defenses, such as improper inventorship, derivation, and inequitable conduct.

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⁹ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description,

10. Communications, studies, comparisons, reports, surveys, evaluations, opinions, or memorandums regarding the conception of the subject matter described and/or claimed in Related Patents or Related Applications, prior to June 28, 2005.¹⁰

11. Communications, studies, comparisons, reports, surveys, evaluations, opinions, or memorandums regarding the testing, design, and development of the subject matter described and/or claimed in Related Patents or Related Applications, prior to the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.¹¹

12. Communications, studies, comparisons, reports, surveys, evaluations, opinions, or memorandums regarding the reduction to practice of the subject matter described and/or claimed in Related Patents or Related Applications, prior to the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.¹²

13. Statements, articles, abstracts, publications, and Product literature made by, or

indefiniteness, and enablement). Such materials will also be relevant to defenses, such as improper inventorship, derivation, and inequitable conduct.

¹⁰ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to defenses, such as improper inventorship, derivation, and inequitable conduct.

¹¹ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to defenses, such as improper inventorship, derivation, and inequitable conduct.

¹² Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to defenses, such as improper inventorship, derivation, and inequitable conduct.

under the direction of, any of the Named Inventors concerning the subject matter described and/or claimed in Related Patents or Related Applications, prior to the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.¹³

14. Laboratory notebooks, technical memoranda, technical files, diaries, appointment calendars, and trip reports, in complete unredacted form, of the Named Inventors, or made under the direction of the Named Inventors, concerning the subject matter described and/or claimed in Related Patents or Related Applications, prior to the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.¹⁴

15. Communications, studies, comparisons, reports, surveys, evaluations, opinions, or memorandums that concern or show the structure, functions, or operation of, or that constitute embodiments of, any invention disclosed or claimed in the Asserted Patent, regardless of whether such embodiment was commercialized, and regardless of whether or not it worked properly, from June 28, 2005 to the present.¹⁵

¹³ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to defenses, such as improper inventorship, derivation, and inequitable conduct.

¹⁴ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to defenses, such as improper inventorship, derivation, and inequitable conduct.

¹⁵ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement, and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to defenses relating to damages, including the availability of non-infringing alternatives and failure to mark.

16. Documents regarding Your employment during the conception of, and prosecution of, the Asserted Patent, including employment agreements, employee evaluations or profiles, and employee policies and procedures related to intellectual property.¹⁶

17. Documents and Communications relating to Your assignment of the invention described and/or claimed in the Asserted Patent.¹⁷ This includes but is not limited to:

- a. Assignment agreements;
- b. Cost-sharing or profit-sharing agreements; and
- c. Remuneration agreements.

18. Communications, studies, comparisons, reports, surveys, evaluations, opinions, or memorandums concerning any of the following activities with regard to the subject matter described and/or claimed in the Asserted Patent:

- a. First written description and/or drawing of such subject matter;
- b. First publication of such subject matter;
- c. First promotion of such subject matter;

¹⁶ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement, and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement).

¹⁷ Such materials will be relevant to issue regarding Plaintiffs standing to bring the current suit and joinder of the proper parties. Such materials will also be relevant to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “established profitability of the product made under the patent”; “the character of the commercial embodiment of it as owned and produced by the licensor”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific Corp. v. United States Plywood Corp.*, 318 F. Supp. 1116, 1119–20 (S.D.N.Y. 1970). Courts in the United States consider these *Georgia-Pacific* factors when determining a reasonable royalty for patent infringement damages. See, e.g., *Lucent Technologies, Inc. v. Gateway, Inc.*, 580 F. 3d 1301, 1324–37 (Fed. Cir. 2009).

- d. First advertisement of such subject matter;
- e. First offer for sale of such subject matter;
- f. First sale of such subject matter;
- g. First public disclosure of such subject matter;
- h. First public use of such subject matter;
- i. Experimental uses or alleged experimental uses of such subject matter.¹⁸

19. Documents concerning the making, using, testing, selling, or disclosure, anywhere in the world, of any embodiment described and/or claimed in the Asserted Patent, or any Product, process, equipment, or service embodying or using such invention, prior to June 28, 2005.¹⁹

20. Documents relating to any Prior Art search performed by You, on Your behalf, or that you are aware of, relating to the Asserted Patent, including, but not limited to, any search methodology or results, prior to the date the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.²⁰

21. Documents relating to any Prior Art search performed by You, on Your behalf, or that you are aware of, relating to any Related Patent or Related Application, including, but not limited to, any search methodology or results, prior to the date the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent

¹⁸ Such materials will be relevant to defenses, such as invalidity (including obviousness, secondary considerations regarding obviousness, and anticipation) and inequitable conduct.

¹⁹ Such materials will be relevant to defenses, such as invalidity (including obviousness, secondary considerations regarding obviousness, and anticipation) and inequitable conduct.

²⁰ Such materials will be relevant to defenses, such as invalidity (including obviousness, secondary considerations regarding obviousness, and anticipation) and inequitable conduct.

or any Related Patent or Related Application.²¹

22. Communications, studies, comparisons, reports, surveys, evaluations, opinions, or memorandums regarding whether any claim in the Asserted Patent is invalid, valid, enforceable, or unenforceable (including any Prior Art or alleged Prior Art), prior to the date the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.²²

23. Documents that concern the commercial success (a secondary consideration regarding obviousness of the Asserted Patent as considered under 35 U.S.C. § 103) of any Product, process, equipment, or service that has a nexus to any invention claimed in the Asserted Patent (i.e., the Product, process, equipment, or service is “essentially the claimed invention”²³), from June 28, 2005 to the date the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.²⁴

24. Documents that concern any copying by others (a secondary consideration

²¹ Such materials will be relevant to defenses, such as invalidity (including obviousness, secondary considerations regarding obviousness, and anticipation) and inequitable conduct.

²² Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement) and inequitable conduct.

²³ *Fox Factory, Inc. v. SRAM, LLC*, 944 F. 3d 1366, 1374 (Fed. Cir. 2019).

²⁴ Such materials will be relevant to defenses, such as invalidity (including obviousness and secondary considerations regarding obviousness). Such materials will also be relevant to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “established profitability of the product made under the patent”; “the character of the commercial embodiment of it as owned and produced by the licensor”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific Corp. v. United States Plywood Corp.*, 318 F. Supp. 1116, 1119–20 (S.D.N.Y. 1970). Courts in the United States consider these *Georgia-Pacific* factors when determining a reasonable royalty for patent infringement damages. *See, e.g., Lucent Technologies, Inc. v. Gateway, Inc.*, 580 F. 3d 1301, 1324–37 (Fed. Cir. 2009).

regarding obviousness of the Asserted Patent as considered under 35 U.S.C. § 103) of any invention claimed in the Asserted Patent, or of any Product, process, equipment, or service that embodies or uses such invention, from June 28, 2005 to the date the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.²⁵

25. Documents that concern any third party's praise, criticism, acknowledgments, awards, or discussion of the significance (a secondary consideration regarding obviousness of the Asserted Patent as considered under 35 U.S.C. § 103) of any invention claimed in the Asserted Patent, or of any Product, process, equipment, or service that embodies or uses such invention, from June 28, 2005 to the date the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.²⁶

26. Communications (or Documents relating thereto) between You and Plaintiff, from June 28, 2005 to the present, relating to:

- a. The Asserted Patent, Related Patents, Related Applications, or any inventions disclosed therein;
- b. This Action (including, without limitation, the initiation of this Action and the actual or anticipated costs, profits, and outcome of this Action); and
- c. Any Defendant, any of Defendants' technology, or any of the Accused

²⁵ Such materials will be relevant to defenses, such as invalidity (including obviousness and secondary considerations regarding obviousness).

²⁶ Such materials will be relevant to defenses, such as invalidity (including obviousness and secondary considerations regarding obviousness).

Products.²⁷

27. Communications (or Documents relating thereto) between You and any of the Named Inventors, from June 28, 2005 to the present, relating to:

- a. The Asserted Patent, Related Patents, Related Applications, or any inventions disclosed therein;
- b. This Action (including, without limitation, the initiation of this Action and the actual or anticipated costs, profits, and outcome of this Action); and
 - a. Any Defendant, any of Defendants' technology, or any of the Accused Products.²⁸

28. Negotiations, agreements, draft agreements between You and Plaintiff, from June 28, 2005 to the present, relating to:

- a. The Asserted Patent, Related Patents, Related Applications, or any inventions disclosed therein;
- b. This Action (including, the initiation of this Action and the actual or anticipated costs, profits, and outcome of this Action); or
- c. Any Defendant, any of Defendants' technology, or any of the Accused

²⁷ Such materials will be relevant to quantifying any alleged damages. Such materials will also be relevant to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement).

²⁸ Such materials will be relevant to quantifying any alleged damages. Such materials will also be relevant to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement).

Products.²⁹

29. Negotiations, agreements, draft agreements between You and Assignee, from June 28, 2005 to the present, relating to:

- a. The Asserted Patent, Related Patents, Related Applications, or any inventions disclosed therein;
- b. This Action (including the initiation of this Action and the actual or anticipated costs, profits, and outcome of this Action); or
- c. Any Defendant, any of Defendants' technology, or any of the Accused Products.³⁰

30. Documents and Communications concerning any statement, concern, or contention by You, any Named Inventor, or any person involved in the prosecution of the Asserted Patent, regarding the scope of any of the claims or the interpretation or construction of any term or phrase in the claims of the Asserted Patent, prior to the date the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.³¹

31. Documents concerning the alleged infringement of any of the claims of the

²⁹ Such materials will be relevant to quantifying any alleged damages. Such materials will also be relevant to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement).

³⁰ Such materials will be relevant to quantifying any alleged damages. Such materials will also be relevant to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement).

³¹ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement) and inequitable conduct.

Asserted Patent, including studies, comparisons, reports, surveys, and any evaluation, opinion, memorandum, or report, comparing any of the Accused Products or any portion, feature, and/or aspect thereof to any limitation in any claim of the Asserted Patent, prior to the date the last action taken by or on behalf of the inventor or any assignee in connection with the prosecution of the Asserted Patent or any Related Patent or Related Application.³²

32. Documents and Communications concerning any business plans, marketing plans, marketing efforts, advertising plans, advertising efforts, promotional programs, or offers for sale, involving or concerning Related Patents or Related Applications.³³

33. Documents and Communications concerning any business plans, marketing plans, marketing efforts, advertising plans, advertising efforts, promotional programs, or offers for sale, involving or concerning Related Patents or Related Applications.³⁴

34. Documents related to the relationship between You and potential or actual Licensees regarding the Asserted Patent, including agreements and draft agreements with such potential Licensees, Communications with such potential Licensees, and Documents exchanged with such potential Licensees that relate to such patents.³⁵

³² Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement.

³³ Such materials will be relevant to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “established profitability of the product made under the patent”; “character of the commercial embodiment of it as owned and produced by the licensor”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific*, 318 F. Supp. at 1119–20.

³⁴ Such materials will be relevant to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “established profitability of the product made under the patent”; “character of the commercial embodiment of it as owned and produced by the licensor”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific*, 318 F. Supp. at 1119–20.

³⁵ Such materials will be relevant to patent exhaustion and license defenses, as well as, to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “royalties received by the patentee”; “rates paid by the licensee for the

35. Documents related to the relationship between You and potential or actual Licensees regarding the Related Patents or Related Applications, including agreements and draft agreements with such potential Licensees, Communications with such potential Licensees, and Documents exchanged with such potential Licensees that relate to such patents.³⁶

36. Valuations of the Asserted Patent (either alone, or together with other patents or consideration, including as part of an intellectual property portfolio).

37. Valuations of the Related Patents or Related Applications (either alone, or together with other patents or consideration, including as part of an intellectual property portfolio).

38. Documents and Communications concerning or relating to an appraisal or valuation of any license, covenant, royalty, technology transfer, or authorization-to-use agreement that relates to the Asserted Patent, including appraisals or valuations performed for tax purposes.³⁷

39. Documents and Communications concerning or relating to any right, title, or interest in any litigation or action involving any of the Asserted Patent, Related Patents, or Related

use of other patents comparable to the patent in suit”; “established profitability of the product made under the patent”; “character of the commercial embodiment of it as owned and produced by the licensor”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific*, 318 F. Supp. at 1119–20.

³⁶ Such materials will be relevant to patent exhaustion and license defenses, as well as, to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “royalties received by the patentee”; “rates paid by the licensee for the use of other patents comparable to the patent in suit”; “established profitability of the product made under the patent”; “character of the commercial embodiment of it as owned and produced by the licensor”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific*, 318 F. Supp. at 1119–20.

³⁷ Such materials will be relevant to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “established profitability of the product made under the patent”; “character of the commercial embodiment of it as owned and produced by the licensor”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific*, 318 F. Supp. at 1119–20.

Applications, including analyses or opinions related thereto.³⁸

40. Documents sufficient to identify, and to show the design, operation, or functioning of, any commercially acceptable, non-infringing (potential or actual) alternative to the subject matter claimed in the Asserted Patent, after December 22, 2009.³⁹

41. Documents sufficient to identify, and to show the design, operation, or functioning of any technically acceptable, non-infringing (potential or actual) alternative to the subject matter claimed in the Asserted Patent, after December 22, 2009.⁴⁰

42. Documents sufficient to identify the nature and scope of any rights in the Asserted Patent that You have obtained and/or retained at any time, including, without limitation, any right to control litigation, future royalties, payments for licenses of the Asserted Patent, or payments relating to or resulting from the outcome of any litigation involving or relating to the Asserted Patent (including without limitation the Action), after December 22, 2009.⁴¹

43. Documents and Communications You exchanged with any trade associations,

³⁸ Such materials will be relevant to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “established profitability of the product made under the patent”; “character of the commercial embodiment of it as owned and produced by the licensor” and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific*, 318 F. Supp. at 1119–20.

³⁹ Such materials will be relevant to defenses relating to damages, including the availability of non-infringing alternatives.

⁴⁰ Such materials will be relevant to defenses relating to damages, including the availability of non-infringing alternatives.

⁴¹ Such materials will be relevant to issue regarding Plaintiffs standing to bring the current suit and joinder of the proper parties. Such materials will be relevant to patent exhaustion and license defenses, as well as, to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “royalties received by the patentee”; “rates paid by the licensee for the use of other patents comparable to the patent in suit”; “established profitability of the product made under the patent”; “character of the commercial embodiment of it as owned and produced by the licensor”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific*, 318 F. Supp. at 1119–20.

standards setting organizations, or industry working groups, relating to the Asserted Patent, or the inventions disclosed therein, from June 28, 2005 to the present.⁴² This includes but is not limited to:

- a. Communications with trade associations, standards setting organizations, or industry trade groups relating to the Asserted Patent, or the inventions disclosed therein;
- b. Technical and non-technical submissions to trade associations, standards setting organizations, or industry trade groups relating to the Asserted Patent, or the inventions disclosed therein;
- c. Intellectual property declarations to any trade associations, standards setting organizations, or industry trade groups relating to the Asserted Patent, or the inventions disclosed therein;
- d. Documents related to trade associations, standards setting organizations, or industry trade groups meetings (including working group meetings) where the subject matter described and/or claimed in the Asserted Patent was discussed.

44. Documents and Communications You exchanged with any trade associations, standards setting organizations, or industry working groups, relating to Related Patents, Related Applications, or the inventions disclosed therein, from June 28, 2005 to the present.⁴³ This

⁴² Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement, and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement).

⁴³ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement, and invalidity (including obviousness, secondary

includes but is not limited to:

- a. Communications with trade associations, standards setting organizations, or industry trade groups relating to Related Patents, Related Applications, or the inventions disclosed therein;
- b. Technical and non-technical submissions to trade associations, standards setting organizations, or industry trade groups relating to Related Patents, Related Applications, or the inventions disclosed therein;
- c. Intellectual property declarations to any trade associations, standards setting organizations, or industry trade groups relating to Related Patents, Related Applications, or the inventions disclosed therein;
- d. Documents related to trade associations, standards setting organizations, or industry trade groups meetings (including working group meetings) where the subject matter described and/or claimed in Related Patents was discussed.

45. Documents (including without limitation correspondence, notes, meeting minutes, proposals, statements, and other Communications) regarding what constitutes Fair Reasonable and Non-Discriminatory (“FRAND”) or Reasonable and Non-Discriminatory (“RAND”) terms relating to patent licensing in the technical space related to the subject matter of the Asserted Claims.⁴⁴

considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement).

⁴⁴ Such materials will be relevant to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “royalties received by the patentee”; “rates paid by the licensee for the use of other patents comparable to the patent in suit”; “established profitability of the product made under the patent”; “character of the commercial

46. Documents sufficient to identify all sections and/or subsection of any standard or draft standard to which You believe the Asserted Patent are essential.⁴⁵

47. Documents sufficient to identify all sections and/or subsection of any standard or draft standard to which You believe the Asserted Patent is relevant to.⁴⁶

embodiment of it as owned and produced by the licensor”; “portion of the profit or of the selling price that may be customary in the particular business or in comparable businesses to allow for the use of the invention or analogous inventions”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific*, 318 F. Supp. at 1119–20.

⁴⁵ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement, and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “royalties received by the patentee”; “rates paid by the licensee for the use of other patents comparable to the patent in suit”; “established profitability of the product made under the patent”; “character of the commercial embodiment of it as owned and produced by the licensor”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific*, 318 F. Supp. at 1119–20.

⁴⁶ Such materials will be relevant to determining the scope of the patents in claim construction and to defenses, such as non-infringement, and invalidity (including obviousness, secondary considerations regarding obviousness, anticipation, patent-eligibility, written description, indefiniteness, and enablement). Such materials will also be relevant to quantifying any alleged damages pursuant the *Georgia-Pacific* factors, which require consideration of the: “royalties received by the patentee”; “rates paid by the licensee for the use of other patents comparable to the patent in suit”; “established profitability of the product made under the patent”; “character of the commercial embodiment of it as owned and produced by the licensor”; and “portion of the realizable profit that should be credited to the invention”; among others things. *Georgia-Pacific*, 318 F. Supp. at 1119–20.

EXHIBIT A2

ORAL EXAMINATION TOPICS REQUESTED

Defendants Dell Technologies Inc., Dell Inc., EMC Corporation, and VMware, Inc. (collectively, “Defendants”) seek to ask questions on topics described below.

DEFINITIONS

The following definitions are applicable to terms employed in responding to this request:

1. “Accused Product” or “Accused Products” shall refer to any device, product, or other thing that Plaintiff is permitted to accuse of infringing the Asserted Patent in this Action. A copy of the Complaint in case number 6:20-cv-00485-ADA is attached as Exhibit A3. In referring to any device, product, or other thing as an “Accused Product,” Defendants in no way communicate their agreement that it infringes the Asserted Patent.
2. “Action” shall refer to the above-captioned proceeding in the United States District Court for the Western District of Texas, with case number 6:20-cv-00485-ADA.
3. “Asserted Claim” shall refer to each claim of the Asserted Patent that Plaintiff contends Defendants infringe.
4. “Asserted Patent” shall refer to U.S. Patent No. 7,636,309 and any patent applications related thereto.
5. “Communication” shall mean, without limitation, any written, oral, or other transmission of information, including but not limited to emails.
6. “Complaint” shall refer to the Complaint (including exhibits) that Plaintiff filed on June 2, 2020 as docket number 1 in this Action, as may be amended.
7. “Concerning,” “refer(s) to,” “related to,” “reflecting,” and “relating to” shall mean directly or indirectly relating to, referring to, mentioning, reflecting, pertaining to, evidencing, illustrating, involving, describing, discussing, commenting on, embodying, responding to,

supporting, contradicting, or constituting (in whole or in part), as the context makes appropriate.

8. “Defendants” or “Defendant” shall refer to Dell Technologies Inc., Dell Inc., EMC Corporation, and VMware, Inc., and any and all of their then-current or prior subsidiaries, parents, affiliates, divisions, successors, predecessors, agents, employees, representatives, directors, officers, trustees, and attorneys, or any other person or entity acting in whole or in part in concert with any of the foregoing, directly or indirectly.
9. “Document” shall include, without limitation, all documents, electronically stored information, and tangible things within the scope of the Federal Rules of Civil Procedure, including Rule 34. Federal Rules of Civil Procedure 34 permits discovery of: “(A) documents or electronically stored information—including writings, drawings, graphs, charts, photographs, sound recordings, images, and other data or data compilations—stored in any medium from which information can be obtained either directly or, if necessary, after translation by the responding party into a reasonably usable form; or (B) any designated tangible things.”
10. “Employee” shall refer to any officer, director, partner, employee, representative, or agent.
11. “Licensee(s)” shall refer to any entity having a license, assignment, covenant not to sue, or other understanding, written, oral or implied, that the entity has any rights to the Asserted Patent, any Related Patents, or any Related Applications, may practice one or more claims of the Asserted Patent and/or that Plaintiff will not file suit or otherwise enforce against that entity one or more claims of the Asserted Patent or any Related Patent or Related Application.

12. “Named Inventor” shall refer to any individual who is listed as an inventor on the Asserted Patent or any Related Patent or Related Application thereof.
13. “Person” shall refer to any natural person, firm, association, partnership, government agency, corporation, proprietorship, or other entity and its officers, directors, partners, employee, representatives, and agents.
14. The terms “Plaintiff,” and/or “WSOU” shall refer to the responding Plaintiff WSOU Investments, LLC d/b/a Brazos Licensing and Development, and any and all of its then-current or prior subsidiaries, parents, affiliates, divisions, successors, predecessors, agents, employees, representatives, directors, officers, trustees, and attorneys, or any other person or entity acting in whole or in part in concert with any of the foregoing, directly or indirectly.
15. “Prior Art” encompasses, without limitation, the subject matter described in each and every subdivision of 35 U.S.C. §§ 102 and 103, and includes, but is not limited to, memoranda, notes, manuals, interviews, testing data, disclosures, prototypes, correspondence, drawings, papers, articles, patents, printed publications, public uses, demonstrations, offers for sale or license, and sales.
16. “Related Application(s)” means any and all applications related to the Asserted Patent, including any provisional or non-provisional applications, continuations, continuations-in-part, divisions, interferences, reexaminations, re-issues, parents, foreign counterpart applications, and any other applications disclosing, describing or claiming any invention disclosed, described or claimed in the Asserted Patent, or claiming the benefit of the filing date of any application whose benefit is claimed in the Asserted Patent, whether or not abandoned and whether or not issued.

17. “Related Patent(s)” means any and all U.S. or foreign patents based upon or related to any Related Application(s) or Asserted Patent, including any patents or applications that may have been opposed, reexamined, re-issued or subjected to any validity or nullity proceeding.
18. “Third Party” shall refer to any person other than Plaintiff or Defendants.
19. “You,” “Your,” “Yours” shall refer to Harsha Nagesh, and any and all of its then-current or prior subsidiaries, parents, affiliates, divisions, successors, predecessors, agents, employees, representatives, directors, officers, trustees, and attorneys, or any other person or entity acting in whole or in part in concert with any of the foregoing, directly or indirectly.
20. “Product(s)” means a machine, manufacture, apparatus, device, instrument, mechanism, appliance, software, service, process, or an assemblage of components/parts (either individually or collectively) that are designed to function together electronically, mechanically, or otherwise, including any offered for sale or under development.
21. Any pronouns shall be construed to refer to the masculine, feminine, or neutral gender, in singular or plural, as in each case is most appropriate.
22. The singular form of any word shall be construed to also include the plural, and vice-versa.
23. The word “each” shall be construed to mean “each and every.”
24. The words “and” and “or” shall be construed conjunctively or disjunctively, whichever makes the request more inclusive.
25. The words “any” and “all” shall be construed to mean “any and all.”

INSTRUCTIONS

1. This request seeks disclosure to the full extent of the Federal Rules of Civil Procedure and shall be interpreted as inclusive rather than exclusive.

2. It is Your duty in responding to this request to designate one or more officers, directors, managing agents, or other Persons who are the most knowledgeable with respect to the topics identified below.

DEPOSITION TOPICS

1. The alleged invention(s) claimed in each Asserted Claim, and the alleged benefits, advantages, disadvantages or limitations of those alleged invention(s) as compared to the state of the art at the time of filing, and the factual bases thereof.
2. The inventorship of each Asserted Claim, including identification of any individuals other than the Named Inventors who aided or participated in the conception, reduction to practice, or diligence toward reduction to practice of the subject matter of the Asserted Claims.
3. The role of each Named Inventor, as well as any individual identified pursuant to Topic No. 2, in the alleged invention of each Asserted Claim, including conception, diligence and reduction to practice, and including the subject matter to which each Person contributed, and the dates and circumstances in which each Named Inventor, as well as any individual identified pursuant to Topic No. 2, made such contributions.
4. The conception, reduction to practice, and diligence toward the reduction to practice of each Asserted Claim, and any corroboration thereof.
5. The dates and circumstances concerning any first disclosure, demonstration, sale or offer for sale of any prototype or commercial embodiment of any of the inventions claimed in the Asserted Claims, and the identification and subject matter of any documents relating to or referring to each such activity.
6. The past and current ownership of the Asserted Patent, including its chain of title.

7. The preparation and prosecution of the applications relating to the Asserted Patent, any Related Patents, Related Applications, and patents and applications incorporated by reference into the Asserted Patent, and any certificates of correction.

8. The state of the art at the time of filing for the Asserted Patent, any Related Patents, Related Applications, and patents and applications incorporated by reference into the Asserted Patent, and Your knowledge thereof.

9. Any facts, studies, investigations, information, documents (including Prior Art), and analyses You identified, received, or knew at any time relating to the alleged validity, enforceability, infringement, valuation, or priority dates of the Asserted Patent, Related Patents, Related Applications, or patents and applications incorporated by reference into the Asserted Patent, including any Communications with third parties relating to the foregoing.

10. Any facts, studies, investigations, information, documents, and analyses regarding the structure, functions, development of, or operation of, or that constitute embodiments of, any alleged invention disclosed or claimed in the Asserted Patent, regardless of whether such embodiment was commercialized, and regardless of whether or not it worked properly.

11. Your knowledge of, and participation in, any Communications between Plaintiff and Defendants prior to the filing of the Action.

12. Any Communications related to Plaintiff, including communications related to licensing of any patents related the subject matter of the Asserted Claims, including the Asserted Patent, Related Patents, and Related Applications, compensation, license rates, royalties related thereto, agreements with Plaintiff, Defendants, the Action, the decision to file the Action, requests or offers to provide assistance, witnesses and/or documents for use in the Lawsuit, and

any discussion about standing of Plaintiff to bring the Action. Your relationship with all potential Licensees, including all agreements, assurances, covenants not to sue, and understandings not to assert patents against such potential Licensees, including but not limited to Communications and agreements relating to the Asserted Patent, Related Patents or Related Applications, and the circumstances relating to such activity.

13. Your relationship with any entity associated with Stuart A. Shanus, Marc Wade, and/or Craig Etchegoyen, including without limitation Wade and Company, Orange Holdings, WSOU, and/or Uniloc USA, Inc.,¹ including any patent license agreements with any such entity that relate to patents or patent applications that claim subject matter related to the subject matter of the Asserted Claims.

14. Any Communication You engaged in regarding each Defendant and its respective products or services, and any analysis You performed of each Defendant and its respective products and services related to the Asserted Patent, Related Patents or Related Applications.

15. Any valuations of the Asserted Patent or any portfolio of patents that includes the Asserted Patent.

16. Any financial interests that You may have in the Asserted Patent, including but not limited to royalties and the outcome of the Action.

17. Any facts, studies, investigations, and analyses relating to any submission of intellectual property right declarations with respect to the Asserted Patent to any standard maintained by an international and/or domestic trade association or standards setting

¹ Stuart A. Shanus and Craig Etchegoyen are the Chairman and President of WSOU. Mark Wade, Wade and Company, Orange Holdings, and/or Uniloc USA, Inc. are all related persons or entities of WSOU.

organization, including all analyses or opinions related thereto.

18. Any facts, studies, investigations, and analyses relating to any alleged essentiality of the Asserted Patent to any industry standard, including any Communications with third parties relating to the foregoing.

19. Any investigation of the standards activity and intellectual property right disclosures of any predecessor-in-interest to the Asserted Patent, including any investigation by You into the intellectual property right policies, Fair Reasonable and Non-Discriminatory (“FRAND”) obligations, or Reasonable and Non-Discriminatory (“RAND”) terms relating to patent licensing in the technical space related to the subject matter of the Asserted Claims.

20. The role of You and/or any prior owner of the Asserted Patent, or any affiliates of You, or a prior owner of the Asserted Patent, in any standards setting organization from June 28, 2005 to present.

21. Any Communications that You, any predecessor-in-interest of the Asserted Patent, and/or any Named Inventors had with by an international and/or domestic trade association or standards setting organizations regarding the subject matter of the Asserted Claims.

22. Any disclosures made by or on behalf of You or any predecessor-in-interest of the Asserted Patent to an international and/or domestic trade association or standards setting organization regarding the existence and/or potential standard essentiality of the Asserted Patent, Related Patents, or Related Applications.

23. Your knowledge of, and compliance with, intellectual property right policies of an international and/or domestic trade association or standards setting organization related to the subject matter of the Asserted Claims.

24. Your knowledge of, and compliance with, FRAND and/or RAND obligations, including without limitation any policies, guidelines, or instructions, and any related analysis or discussions.
25. Your collection, retention and production of documents and information relevant to the Action.
26. The subject matter and content of all Documents and Communications identified and/or produced in response to the above requests.
27. The authenticity of all Documents identified in response to the requests for production.
28. All Documents reviewed by You in connection with the deposition on these topics.

EXHIBIT A3

**IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF TEXAS
WACO DIVISION**

WSOU INVESTMENTS, LLC d/b/a §
BRAZOS LICENSING AND §
DEVELOPMENT, §
§
Plaintiff, § **JURY TRIAL DEMANDED**
§
v. §
§
DELL TECHNOLOGIES INC., DELL §
INC., EMC CORPORATION, AND §
VMWARE, INC. §
§
§
Defendants.

FIRST AMENDED COMPLAINT FOR PATENT INFRINGEMENT

Plaintiff WSOU Investments, LLC d/b/a Brazos Licensing and Development (“Brazos” or “Plaintiff”), by and through its attorneys, files this First Amended Complaint (“Amended Complaint” or “Complaint”) for Patent Infringement against Dell Technologies Inc., Dell Inc., EMC Corporation, and VMWare, Inc. (collectively, “Defendants”) and alleges:

NATURE OF THE ACTION

1. This is a civil action for patent infringement arising under the Patent Laws of the United States, 35 U.S.C. §§ 1, et seq., including §§ 271, 281, 284, and 285.

THE PARTIES

2. Brazos is a limited liability corporation organized and existing under the laws of Delaware, with its principal place of business at 605 Austin Avenue, Suite 6, Waco, Texas 76701.

3. On information and belief, defendant Dell Technologies Inc. (“Dell”) is a Delaware corporation with a principal place of business at One Dell Way, Round Rock, Texas 78682.

4. On information and belief, defendant Dell Inc. is a Delaware corporation with a principal place of business at One Dell Way, Round Rock, Texas 78682. Dell Inc. is wholly owned by its corporate parent, Dell.

5. On information and belief, defendant EMC Corporation (“EMC”) is a Massachusetts corporation with a principal place of business at One Dell Way, Round Rock, Texas 78682. EMC Corporation is wholly owned by its corporate parent, Dell Technologies Inc.

6. Upon information and belief, VMware, Inc. (“VMWare”) is a Delaware corporation with two established places of business in this District, including two in Austin, Texas with over 700 employees.

7. Upon information and belief, VMWare was acquired by EMC in 2004 and conducted an initial public offering of Class A common stock in August 2007. On or around September 2016, Dell acquired by EMC. As a result, EMC became a wholly-owned subsidiary of Dell, and VMWare became an indirectly-held, majority-owned subsidiary of Dell. Under the rules of the New York Stock Exchange, VMWare is a controlled company. As of January 31, 2020, Dell controlled approximately 80.9% of VMWare’s outstanding common stock, including 31 million shares of its Class A common stock and all of its Class B common stock.

JURISDICTION AND VENUE

8. This is an action for patent infringement which arises under the Patent Laws of the United States, in particular, 35 U.S.C. §§ 271, 281, 284, and 285.

9. This Court has jurisdiction over the subject matter of this action under 28 U.S.C. §§ 1331 and 1338(a).

10. This Court has specific and general personal jurisdiction over each defendant pursuant to due process and/or the Texas Long Arm Statute, because each defendant has committed

acts giving rise to this action within Texas and within this judicial district. The Court's exercise of jurisdiction over each defendant would not offend traditional notions of fair play and substantial justice because each defendant has established minimum contacts with the forum. For example, on information and belief, each defendant has committed acts of infringement in this judicial district, by among other things, selling and offering for sale products that infringe the asserted patent, directly or through intermediaries, as alleged herein.

11. Venue in the Western District of Texas is proper pursuant to 28 U.S.C. §§1331 and/or 1400(b). Each defendant has established places of business in the Western District of Texas. Each defendant is registered to do business in Texas. Upon information and belief, each defendant has transacted business in this District and has committed acts of infringement in this District.

COUNT ONE - INFRINGEMENT OF
U.S. PATENT NO. 7,636,309

12. Brazos re-alleges and incorporates by reference the preceding paragraphs of this Complaint.

13. On December 22, 2009, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 7,636,309 ("the '309 Patent"), entitled "Multi-Path Routing Using Intra-Flow Splitting." A true and correct copy of the '309 Patent is attached as Exhibit A to this Complaint.

14. Brazos is the owner of all rights, title, and interest in and to the '309 Patent, including the right to assert all causes of action arising under the '309 Patent and the right to any remedies for the infringement of the '309 Patent.

15. Defendants make, use, sell, offer for sale, import, and/or distribute in the United States, including within this judicial district, products such as, but not limited to, cloud-related solutions, including but not limited to, devices incorporating VMware's VeloCloud solutions and

SD-WAN software, such as Dell EMC SD-WAN Edge 600 series products (collectively, the “Accused Products”).

VMware and VeloCloud

In December 2017, VMware acquired VeloCloud, the market leader in cloud-delivered SD-WAN that enables enterprises and service providers to deploy flexible, secure WAN connectivity.

<https://www.vmware.com/company/acquisitions/velocloud.html>

Get what it takes to build your VMware cloud. Accelerate your timeframe for success with a complete VMware cloud solution from Dell. [Contact Dell >](#)



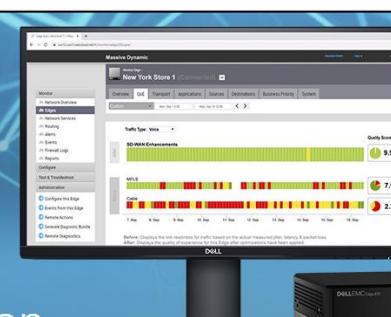
Benefit from an experienced cloud partnership

The success of your cloud initiatives may ride on the experience of your cloud solution provider. Choose a partner that provides mature, integrated joint-solutions, including VMware technology and Dell servers, storage, networking, software and services.

Contact a Dell expert
Transform your data center from infrastructure-centric to service-centric. [Contact Now >](#)

<https://www.dell.com/learn/us/en/15/solutions/vmware-vcloud>

Products > Networking > SD-WAN Solution



Dell EMC SD-WAN Solution
powered by VMware

Intel® Xeon® Scalable Processors



<https://www.delltechnologies.com/en-us/networking/sd-wan-solution/index.htm>

16. The Accused Products have a variety of features and capabilities including Dynamic Multipath Optimization (DMPO) technology. VMware SD-WAN processing of traffic flows at a node in a network can provide packet level redirection. This allows one or multiple physical WAN links to be abstracted and virtualized packet-by-packet. Path selection and remediation techniques can be applied in virtually real-time. Dynamic load-sharing maintains end-customer application performance quality, regardless of the reliability or consistency of the individual physical link.

Network Visibility Enables Proactive Management of Bandwidth and Users

Dell deploys VMware SD-WAN Gateways as part of its overall SD-WAN platform, managing all sites on its network and eliminating any latency that may occur. Using VMware SD-WAN Dynamic Multi-Path Optimization (DMPO), Dell no longer has to manage traffic routes on the network or troubleshoot sub-par connections. Additionally, VMware SD-WAN captures data on users and traffic patterns so that Dell IT administrators can analyze it to determine what type of transport and bandwidth is necessary based on the branch location.

<https://www.velocloud.com/content/dam/digitalmarketing/velocloud/en/documents/case-study-dell-emc.pdf>



<https://technologyleadership.academy/wp-content/uploads/2019/08/SDWAN-velocloud-benefits-DynamicMultipathOptimization.pdf>

17. DMPO can perform continuous, uni-directional measurements of performance metrics (for example, loss, latency, and jitter) of every packet obtained from multiple flows on

every tunnel between any two DMPO endpoints, VeloCloud Edge (VCE), or VeloCloud Gateway (VCG).

Continuous Path Monitoring

DMPO performs continuous, uni-directional measurements of performance metrics - loss, latency and jitter of every packet on every tunnel between any two DMPO endpoints, VCE or VCG. VeloCloud's per-packet steering allows independent decisions in both uplink and downlink directions without introducing any asymmetric routing. DMPO uses both passive and active monitoring approaches.

When user traffic is present, the DMPO tunnel header contains additional performance metrics including sequence number and timestamp, thus enabling the DMPO endpoints to identify lost and out-of-order packets, and calculate jitter and latency in each direction. The DMPO endpoints communicate the performance metrics of the path between each other every 100 ms.

When there is no user traffic, an active probe is sent every 100 ms and, after 5 minutes of no high priority user traffic, the probe frequency is reduced to 500 ms. This comprehensive measurement enables the DMPO to react very quickly to the change in the underlying WAN condition, resulting in the ability to deliver sub-second protection against brownout and blackout in the WAN.

<https://technologyleadership.academy/wp-content/uploads/2019/08/SDWAN-velocloud-benefits-DynamicMultipathOptimization.pdf>

Dynamic Application Steering

Application-aware Per-packet Steering

DMPO identifies traffic using layer 2 to 7 attributes, e.g. VLAN, IP address, protocol, and applications. VeloCloud performs application aware per-packet steering based on Business Policy configurations and real-time link conditions. The Business Policy contains out-of-the-box Smart Defaults that specifies the default steering behavior and priority of more than 2500 applications. Customers can immediately use the dynamic packet steering and application-aware prioritization without having to define policies.

Throughout its lifetime, a single traffic flow can be steered onto one or more DMPO tunnels, in the middle of the communication, with no impact to the flow. A link that is completely down is referred to as having a blackout condition. A link that is unable to deliver SLA for a given application is referred to as having a brownout condition. VeloCloud offers sub-second blackout and brownout protection. With the continuous monitoring of all the WAN links, DMPO detects brownout or blackout condition within 300-500 ms and immediately steers traffic flow to protect the application performance, while ensuring no impact to the active flow and user experience. There is one minute hold time from the time when the link brownout or blackout condition is cleared before DMPO steers the traffic back onto the preferred link if specified in the business policy.

Intelligent learning enables application steering based on first packet of the application by caching classification results. This is necessary for application-based redirection, e.g. redirect Netflix on to the branch Internet link, bypassing the DMPO tunnel, while backhauling Office 365 to the Enterprise regional hub or data center.

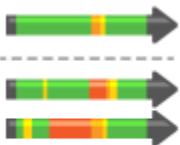
<https://technologyleadership.academy/wp-content/uploads/2019/08/SDWAN-velocloud-benefits-DynamicMultipathOptimization.pdf>

18. The Accused Products perform splitting traffic flows using application-aware per-packet steering based on Business Policy configurations and real-time conditions to route the packets on the best available path. Packets of multiple applications may be steered on a per-packet basis onto one or more DMPO tunnels.

VMware and VeloCloud

In December 2017, VMware acquired VeloCloud, the market leader in cloud-delivered SD-WAN that enables enterprises and service providers to deploy flexible, secure WAN connectivity.

<https://www.vmware.com/company/acquisitions/velocloud.html>



Dynamic Path Selection

VMware SD-WAN Dynamic Multipath Optimization™ comprises deep application recognition, automatic link monitoring, auto-detection of provider and auto-configuration of link characteristics, routing and QOS settings

<https://www.velocloud.com/products/features>

allowing for rapid deployment using the best available link choices. Once enabled, it automatically detects the circuit characteristics, such as bandwidth, latency and more. It then builds a secure overlay network with the SD-WAN gateways across all the available links and starts steering the applications per the configured policy. VMware SD-WAN Dynamic Multipath Optimization (DMPO) ensures superior application performance by dynamically steering packets on the best available path and protects critical applications from sub-optimal performance of the underlying transport.

<https://www.velocloud.com/content/dam/digitalmarketing/velocloud/en/documents/solution-overview-service-providers.pdf>

Continuous Path Monitoring

DMPO performs continuous, uni-directional measurements of performance metrics - loss, latency and jitter of every packet on every tunnel between any two DMPO endpoints, VCE or VCG. VeloCloud's per-packet steering allows independent decisions in both uplink and downlink directions without introducing any asymmetric routing. DMPO uses both passive and active monitoring approaches.

When user traffic is present, the DMPO tunnel header contains additional performance metrics including sequence number and timestamp, thus enabling the DMPO endpoints to identify lost and out-of-order packets, and calculate jitter and latency in each direction. The DMPO endpoints communicate the performance metrics of the path between each other every 100 ms.

When there is no user traffic, an active probe is sent every 100 ms and, after 5 minutes of no high priority user traffic, the probe frequency is reduced to 500 ms. This comprehensive measurement enables the DMPO to react very quickly to the change in the underlying WAN condition, resulting in the ability to deliver sub-second protection against brownout and blackout in the WAN.

<https://technologyleadership.academy/wp-content/uploads/2019/08/SDWAN-velocloud-benefits-DynamicMultipathOptimization.pdf>

Dynamic Application Steering

Application-aware Per-packet Steering

DMPO identifies traffic using layer 2 to 7 attributes, e.g. VLAN, IP address, protocol, and applications. VeloCloud performs application aware per-packet steering based on Business Policy configurations and real-time link conditions. The Business Policy contains out-of-the-box Smart Defaults that specifies the default steering behavior and priority of more than 2500 applications. Customers can immediately use the dynamic packet steering and application-aware prioritization without having to define policies.

Throughout its lifetime, a single traffic flow can be steered onto one or more DMPO tunnels, in the middle of the communication, with no impact to the flow. A link that is completely down is referred to as having a blackout condition. A link that is unable to deliver SLA for a given application is referred to as having a brownout condition. VeloCloud offers sub-second blackout and brownout protection. With the continuous monitoring of all the WAN links, DMPO detects brownout or blackout condition within 300-500 ms and immediately steers traffic flow to protect the application performance, while ensuring no impact to the active flow and user experience. There is one minute hold time from the time when the link brownout or blackout condition is cleared before DMPO steers the traffic back onto the preferred link if specified in the business policy.

Intelligent learning enables application steering based on first packet of the application by caching classification results. This is necessary for application-based redirection, e.g. redirect Netflix on to the branch Internet link, bypassing the DMPO tunnel, while backhauling Office 365 to the Enterprise regional hub or data center.

<https://technologyleadership.academy/wp-content/uploads/2019/08/SDWAN-velocloud-benefits-DynamicMultipathOptimization.pdf>

19. The Accused Products can provide a branch networking solution that combines the economics and flexibility of multiple WAN transports. Packets belonging to multiple flows can be

received through multiple branches. The packets can be combined and steered on a per-packet basis on different DMPO tunnels.

Transforming the MPLS Network to a Service-Ready Network

VMware SD-WAN is a pioneer in branch networking with a solution that combines the economics and flexibility of multiple WAN transports with the deployment and agility of a cloud-based service. VMware SD-WAN provides a managed, cloud-ready solution for service providers looking to deliver a managed hybrid WAN with MPLS service. With VMware SD-WAN, policies can be defined in the VMware SD-WAN Orchestrator to provide application steering according to business requirements, policy and governance. By combining internet links with MPLS, coupled with a centralized policy controller, service providers can meet the demands for a unified, elastic bandwidth service. In addition to higher reliability, increased available bandwidth, and improved application performance for their end customers, service providers can easily operate and integrate this new architecture into their existing MPLS network. Managed Hybrid WAN can be the next generation WAN service that is easier to manage and deploy, that can be built on the foundation of a cloud-delivered SD-WAN.

<https://www.velocloud.com/content/dam/digitalmarketing/velocloud/en/documents/solution-overview-service-providers.pdf>

Number One: Dynamic Multi-Path Optimization (DMPO)

DMPO aggregates all available links including broadband, LTE, and MPLS circuits and using application-aware per-packet link steering and on-demand remediation, achieves optimal performance under all conditions including brown-out or black-out scenario. This ensures that healthcare data is accessible and transmittable at all times, including the accelerated transfer of radiological images (PACS, DICOM, etc.) and that sub-second failover maintains stable VDI sessions and real-time traffic for voice, video, and telehealth communications.

<https://blogs.vmware.com/velocloud/2018/08/02/healthcare-technology-part-3-why-providers-say-i-gotta-have-sd-wan/>

Dynamic Application Steering

Application-aware Per-packet Steering

DMPO identifies traffic using layer 2 to 7 attributes, e.g. VLAN, IP address, protocol, and applications. VeloCloud performs application aware per-packet steering based on Business Policy configurations and real-time link conditions. The Business Policy contains out-of-the-box Smart Defaults that specifies the default steering behavior and priority of more than 2500 applications. Customers can immediately use the dynamic packet steering and application-aware prioritization without having to define policies.

Throughout its lifetime, a single traffic flow can be steered onto one or more DMPO tunnels, in the middle of the communication, with no impact to the flow. A link that is completely down is referred to as having a blackout condition. A link that is unable to deliver SLA for a given application is referred to as having a brownout condition. VeloCloud offers sub-second blackout and brownout protection. With the continuous monitoring of all the WAN links, DMPO detects brownout or blackout condition within 300-500 ms and immediately steers traffic flow to protect the application performance, while ensuring no impact to the active flow and user experience. There is one minute hold time from the time when the link brownout or blackout condition is cleared before DMPO steers the traffic back onto the preferred link if specified in the business policy.

Intelligent learning enables application steering based on first packet of the application by caching classification results. This is necessary for application-based redirection, e.g. redirect Netflix on to the branch Internet link, bypassing the DMPO tunnel, while backhauling Office 365 to the Enterprise regional hub or data center.

<https://technologyleadership.academy/wp-content/uploads/2019/08/SDWAN-velocloud-benefits-DynamicMultipathOptimization.pdf>

20. The Accused Products can perform per-packet load balancing to maintain even traffic flow through the branches of the network. Per-packet link steering can be performed automatically, for example, based on measured performance metrics, intelligent application learning, the business priority of the application, and link cost.

Bandwidth Aggregation

For applications that can benefit from more bandwidth, e.g. file transfer, DMPO performs per-packet load balancing, utilizing all available links to deliver all packets of a single flow to the destination. DMPO takes into account the real-time WAN performance and decides which paths should be used for the flow. Additionally, the DMPL performs resequencing at the receiving end to ensure there is no out-of-order packets introduced as a result of per-packet load balancing.

Example: Two 50 Mbps links deliver 100 Mbps of aggregated capacity for a single traffic flow. Quality of Service (QoS) is applied at both the aggregate and individual link levels.

<https://technologyleadership.academy/wp-content/uploads/2019/08/SDWAN-velocloud-benefits-DynamicMultipathOptimization.pdf>



Link Steering and Remediation

On-demand, Per-packet link steering is performed automatically based on the measured performance metric, intelligent application learning, business priority of the application, and link cost. Delivers sub-second blackout and brownout protection to improve application availability. Remediates link degradation through forward error correction, activating jitter buffering and synthetic packet production.

<https://www.velocloud.com/products/features>

21. The Accused Products can perform per-packet load-balancing of packets belonging to a traffic flow across all available paths to the destination. On information and belief, the Accused Products use a split ratio vector in the manner claimed. For example, they take into account the real-time WAN performance, such as which paths are in use, automatically decide which paths should be used for the flow, and then perform resequencing at the destination to ensure the packets reach the destination in a sequential manner.

- *Automated Bandwidth Discovery* – During the deployment of an NSX SD-WAN Edge by VeloCloud, it will automatically detect WAN links, measuring both the up and down bandwidth to the nearest available NSX SD-WAN Gateway by VeloCloud or hub. Using continuous link monitoring at an interval of every 100 m/s, DMPO performs continuous unidirectional measurement of link characteristics: latency, packet loss and jitter of every packet on every tunnel between any two DMPO endpoints.
- *Dynamic Application-Aware Per Packet Steering* – Based on the real-time link measurements and business policy configuration, DMPO can perform application-aware per packet steering in sub-second intervals during blackout and brownout conditions. Because NSX SD-WAN is a packet-based and not flow-based solution, it can steer packets mid-flow with no impact to the overall flow of traffic.
- *Bandwidth Aggregation* – DMPO performs per-packet load-balancing of packets belonging to a traffic flow across all available links to the destination. It takes into account the real-time WAN performance and automatically decides which paths should be used for the flow and then performs resequencing at the destination to ensure there is no out-of-order.

<https://blogs.vmware.com/velocloud/2018/08/02/healthcare-technology-part-3-why-providers-say-i-gotta-have-sd-wan/>

22. In view of preceding paragraphs, each and every element of at least claim 1 of the ‘309 Patent is found in the Accused Products.

23. Defendants continue to directly infringe at least one claim of the ‘309 Patent, literally or under the doctrine of equivalents, by making, using, selling, offering for sale, importing, and/or distributing the Accused Products in the United States, including within this judicial district, without the authority of Brazos.

24. Upon information and belief, each and every element of at least one claim of the patent-in-suit is performed or practiced by Defendants at least through Defendants’ own use and configuration of its own Accused Products, and/or through Defendants’ own testing and configuration of its own Accused Products, and/or through Defendants’ providing services for its Accused Products, including but not limited to providing installation, deployment, support and configuration of its Accused Products.

25. Defendants had knowledge of their infringement of the patent-in-suit before the filing of this Amended Complaint.¹ Defendants received notice and actual or constructive

¹ Dell filed a motion to dismiss that is mooted by this Amended Complaint. Dell’s motion cites a WDTX case (which relies authority from the District of Delaware) for the proposition that knowledge of a plaintiff’s patent after the lawsuit was filed is insufficient to plead the requisite knowledge for indirect infringement. *See Aguirre v. Powerchute Sports, LLC*, No. SA-10-CV-0702 XR, 2011 WL 2471299, at *3 (W.D. Tex. June 17, 2011) (citing *Xpoint Techs. v. Microsoft Corp.*, 730 F.Supp.2d 349 (D. Del. 2010)). Several Delaware courts have since rejected this rule because there is no statutory basis to support it and because there is no purpose served by the formality of requiring the plaintiff to file an amended complaint in order to be allowed to assert knowledge of the patents during the period following the filing of the original complaint. *See Walker Digital, LLC v. Facebook, Inc.*, 852 F. Supp. 2d 559, 566 (D. Del. 2012) (“The court acknowledges that this result is inconsistent with its prior decisions in *Xpoint Techs. v. Microsoft Corp.*, 730 F.Supp.2d 349 (D. Del. 2010), and *EON Corp. IP Holdings LLC v. FLO TV Inc.*, 802 F.Supp.2d 527 (D. Del. 2011). Given the ease of amendment, the limitation of damages to post-knowledge conduct, and in the interests of judicial economy, the court finds that the better reasoning is to allow a complaint that satisfies Rule 8 to proceed to discovery rather than dismissing it for lack of pre-filing knowledge when, by the time the motion to dismiss has been filed, defendant in fact has the requisite knowledge as pled by plaintiff.”); *see also IOENGINE,*

knowledge of their infringement of the patent-in-suit since at least the date of service of the original Complaint.

26. Since before the filing of this Amended Complaint, through its actions, Defendants have actively induced product makers, distributors, retailers, and/or end users of the Accused Products to infringe the '309 Patent throughout the United States, including within this judicial district, by, among other things, advertising and promoting the use of the Accused Products in various websites, including providing and disseminating product descriptions, operating manuals, and other instructions on how to implement and configure the Accused Products. Examples of such advertising, promoting, and/or instructing include the documents at:

- <https://www.dell.com/learn/us/en/15/solutions/vmware-vcloud>
- <https://www.delltechnologies.com/en-us/networking/sd-wan-solution/index.htm>
- <https://www.dell.com/en-us/work/shop/povw/sd-wan-edge-600>
- <https://www.velocloud.com/content/dam/digitalmarketing/velocloud/en/documents/case-study-dell-emc.pdf>
- <https://technologyleadership.academy/wp-content/uploads/2019/08/SDWAN-velocloud-benefits-DynamicMultipathOptimization.pdf>
- <https://www.vmware.com/company/acquisitions/velocloud.html>
- <https://www.velocloud.com/products/features>
- <https://www.velocloud.com/content/dam/digitalmarketing/velocloud/en/documents/solution-overview-service-providers.pdf>

LLC v. PayPal Holdings, Inc., CV 18-452-WCB, 2019 WL 330515, at *4 (D. Del. Jan. 25, 2019) (“The Court sees no purpose that would be served by the formality of requiring IOENGINE to file an amended complaint in order to be allowed to assert knowledge of the patents during the period following the filing of the original complaint.”).

- <https://blogs.vmware.com/velocloud/2018/08/02/healthcare-technology-part-3-why-providers-say-i-gotta-have-sd-wan/>

27. Since before the filing of this Amended Complaint, through its actions, Defendants have contributed to the infringement of the ‘309 Patent by having others sell, offer for sale, or use the Accused Products throughout the United States, including within this judicial district, with knowledge that the Accused Products infringe the ‘309 Patent. The Accused Products are especially made or adapted for infringing the ‘309 Patent and have no substantial non-infringing use. For example, in view of the preceding paragraphs, the Accused Products contain functionality which is material to at least one claim of the ‘309 Patent.

JURY DEMAND

Brazos hereby demands a jury on all issues so triable.

REQUEST FOR RELIEF

WHEREFORE, Brazos respectfully requests that the Court:

- (A) Enter judgment that Defendants infringe one or more claims of the ‘309 Patent literally and/or under the doctrine of equivalents;
- (B) Enter judgment that Defendants have induced infringement and continue to induce infringement of one or more claims of the ‘309 Patent;
- (C) Enter judgment that Defendants have contributed to and continue to contribute to the infringement of one or more claims of the ‘309 Patent;
- (D) Award Brazos damages, to be paid by Defendants in an amount adequate to compensate Brazos for such damages, together with pre-judgment and post-judgment interest for the infringement by Defendants of the ‘309 Patent through the date such judgment is entered in

accordance with 35 U.S.C. § 284, and increase such award by up to three times the amount found or assessed in accordance with 35 U.S.C. § 284;

- (E) Declare this case exceptional pursuant to 35 U.S.C. § 285; and
- (F) Award Brazos its costs, disbursements, attorneys' fees, and such further and additional relief as is deemed appropriate by this Court.

Dated: October 19, 2020

Respectfully submitted,

/s/ James L. Etheridge
James L. Etheridge
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Texas State Bar No. 24036997
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COUNSEL FOR PLAINTIFF

EXHIBIT A4

UNITED STATES DISTRICT COURT
Western District of Texas
WACO DIVISION

WSOU INVESTMENTS LLC §
§
vs. § NO: WA:20-CV-00485-ADA
§
DELL TECHNOLOGIES INC., DELL INC., §
EMC CORPORATION, VMWARE, INC. §

ORDER GOVERNING PROCEEDINGS – PATENT CASE

This Order shall govern proceedings in this case. The following deadlines are hereby set:

This case is SET for a telephonic Rule 16 Case Management Conference on Wednesday, October 21, 2020 at 1:30 p.m. Participants shall dial into the following number 5 minutes before the scheduled time: **866.434.5269; access code 967-8090**. Lead counsel for each party, and all unrepresented parties, shall be present. Client representatives are welcome to attend, but such attendance is not required. In person attendance is permitted, but not required. Anyone planning to attend in person should so inform the Court by contacting chambers not later than two court days before the scheduled hearing so the Court can evaluate whether to hold the conference in the courtroom, or in chambers. The Court expects the parties to be prepared to discuss:

- a. an overview of the claims and defenses, including any unique issues the parties believe should be addressed at this stage of the case;
- b. issues involving the case schedule and potential amendments to the Court's default scheduling order, including the date for the *Markman* Hearing;
- c. issues relating to claim construction, including whether a live tutorial would be of benefit to the Court;
- d. issues relating to discovery, including potential amendments to the Court's default discovery limits or Protective Order; and,
- e. any other issues the parties believe would lead to the just, speedy and inexpensive determination of this action.

2. (Not later than 7 days before the CMC). Plaintiff shall serve preliminary infringement contentions in the form of a chart setting forth where in the accused product(s) each element of the asserted claims(s) are found. Plaintiff shall also identify the priority date (*i.c.*

the earliest date of invention) for each asserted claim and produce: (1) all documents evidencing conception and reduction to practice for each claimed invention, and (2) a copy of the file history for each patent in suit.

3. (Not later than 3 business days before the CMC). Lead counsel for each party shall meet and confer (either in person or by telephone), to discuss whether they believe the Court's default Scheduling Order and default Discovery Limits are appropriate for this case, and any issues relating to the management of this case they intend to raise at the CMC.
4. (Two weeks after the CMC). The Parties shall submit an agreed Scheduling Order. If the parties cannot agree, the parties shall submit a separate Joint Motion for entry of each Order briefly setting forth their respective positions on items where they cannot agree. Absent agreement of the parties, the Plaintiff shall be responsible for the timely submission of this and other Joint filings.
5. (Two weeks after the CMC). Deadline for Motions to Transfer. The Court also adopts the following page limits and briefing schedule for Motions to Transfer:
 - a. Opening – 15 pages
 - b. Response – 15 pages, due 14 days after the Opening brief
 - c. Reply – 5 pages, due 7 days after the Response brief
6. (Seven weeks after the CMC). Defendant shall serve preliminary invalidity contentions in the form of (1) a chart setting forth where in the prior art references each element of the asserted claim(s) are found, (2) an identification of any limitations the Defendant contends are indefinite or lack written description under section 112, and (3) an identification of any claims the Defendant contends are directed to ineligible subject matter under section 101. Defendant shall also produce (1) all prior art referenced in the invalidity contentions, (2) technical documents, including software where applicable, sufficient to show the operation of the accused product(s), and (3) summary, annual sales information for the accused product(s) for the two years preceding the filing of the Complaint,¹ unless the parties agree to some other timeframe.

DISCOVERY

Except with regard to venue, jurisdictional, and claim construction-related discovery, all other discovery is stayed until after the *Markman* hearing. Notwithstanding this general stay of discovery, the Court will permit limited discovery by agreement of the parties, or upon request, where exceptional circumstances warrant. For example, if discovery outside the United States is contemplated, the Court will be inclined to allow such discovery to commence before the *Markman* hearing.

¹ With regard to expired patents, the sales information shall be provided for the two years preceding expiration.

With respect to venue and jurisdictional discovery, the Court generally grants leave for the parties to conduct targeted discovery (including, but not limited to requests for production, interrogatories, and depositions) with regard to motions to transfer venue or motions to dismiss based on lack of jurisdiction. If the parties disagree as to what reasonable discovery limits are, the Court encourages the parties to contact the Court to request a telephonic discovery hearing.

Following the *Markman* hearing, the following discovery limits will apply to this case. The Court will consider reasonable requests to adjust these limits should circumstances warrant.

1. Interrogatories: 30 per side²
2. Requests for Admission: 45 per side
3. Requests for Production: 75 per side
4. Fact Depositions: 70 hours per side (for both party and non-party witnesses combined)
5. Expert Depositions: 7 hours per report³

Electronically Stored Information. As a preliminary matter, the Court will not require general search and production of email or other electronically stored information (ESI), absent a showing of good cause. If a party believes targeted email/ESI discovery is necessary, it shall propose a procedure identifying custodians and search terms it believes the opposing party should search. The opposing party can oppose, or propose an alternate plan. If the parties cannot agree, they shall contact chambers to schedule a call with the Court to discuss their respective positions.

DISCOVERY DISPUTES

A party may not file a Motion to Compel discovery unless: (1) lead counsel have met and conferred in good faith to try to resolve the dispute, and (2) the party has contacted the Court's law clerk (with opposing counsel) to arrange a telephone conference with the Court to summarize the dispute and the parties respective positions. After hearing from the parties, the Court will determine if further briefing is required.

PROTECTIVE ORDER

Pending entry of the final Protective Order, the Court issues the following interim Protective Order to govern the disclosure of confidential information in this matter:

If any document or information produced in this matter is deemed confidential by the producing party and if the Court has not entered a protective order, until a protective order is issued by the Court, the document shall be marked "confidential" or with some

² A "side" shall mean the plaintiff (or related plaintiffs suing together) on the one hand, and the defendant (or related defendants sued together) on the other hand. In the event that the Court consolidates related cases for pretrial purposes, with regard to calculating limits imposed by this Order, a "side" shall be interpreted as if the cases were proceeding individually. For example, in consolidated cases the plaintiff may serve up to 30 interrogatories on each defendant, and each defendant may serve up to 30 interrogatories on the plaintiff.

³ For example, if a single technical expert submits reports on both infringement and invalidity, he or she may be deposed for up to 14 hours in total.

other confidential designation (such as “Confidential – Outside Attorneys Eyes Only”) by the disclosing party and disclosure of the confidential document or information shall be limited to each party’s outside attorney(s) of record and the employees of such outside attorney(s).

If a party is not represented by an outside attorney, disclosure of the confidential document or information shall be limited to one designated “in house” attorney, whose identity and job functions shall be disclosed to the producing party 5 days prior to any such disclosure, in order to permit any motion for protective order or other relief regarding such disclosure. The person(s) to whom disclosure of a confidential document or information is made under this local rule shall keep it confidential and use it only for purposes of litigating the case.

CLAIM CONSTRUCTION ISSUES

Terms for Construction. Based on the Court’s experience, the Court believes that it should have presumed limits on the number of claim terms to be construed. The “presumed limit” is the maximum number of terms that the parties may request the Court to construe without further leave of Court. If the Court grants leave for the additional terms to be construed, depending on the complexity and number of terms, the Court may split the Markman hearing into two hearings.

The presumed limits based on the number of patents-in-suit are as follows:

Limits for Number of Claim Terms to be Construed

1-2 Patents	3-5 Patents	More than 5 Patents
10 terms	12 terms	15 terms

When the parties submit their joint claim construction statement, in addition to the term and the parties’ proposed constructions, the parties should indicate which party or side proposed that term, or if that was a joint proposal.

Claim Construction Briefing. The Court will require simultaneous claim construction briefing with the following default page limits; however, where exceptional circumstances warrant, the Court will consider reasonable requests to adjust these limits. These page limits shall also apply collectively for consolidated cases; however, the Court will consider reasonable requests to adjust page limits in consolidated cases where circumstances warrant. In addition, the Court is very familiar with the law of claim construction and encourages the parties to forego lengthy recitations of the underlying legal authorities and instead focus on the substantive issues unique to each case.

Unless otherwise agreed by the parties, all simultaneous filings will take place at 5:00 p.m. CT.

Page Limits for Markman Briefs

Brief	1-2 Patents	3-5 Patents	More than 5 Patents
Opening	20 pages	30 pages	30 pages, plus 5 additional pages for each patent over 5 up to a maximum of 45 pages
Response	20 pages	30 pages	30 pages, plus 5 additional pages for each patent over 5 up to a maximum of 45 pages
Reply	10 pages	15 pages	15 pages, plus 2 additional pages for each patent over 5 up to a maximum of 21 pages

Conduct of the Markman Hearing.

The Court generally sets aside one half day for the *Markman* hearing; however, the Court is open to reserving more or less time, depending on the complexity of the case and input from the parties. The Court requires submission of technology tutorials in advance of the *Markman* hearing when they may be of benefit. The parties may submit tutorials in electronic form not later than one week before the *Markman* hearing and the Court encourages the parties to aim for tutorials with voiceovers in the 15 minute range. If a party intends to present a live tutorial, the parties should contact the Court to set-up a Zoom or telephonic tutorial to occur at least a week before the *Markman* hearing. In general, tutorials should be: (1) directed to the underlying technology (rather than argument related to infringement or validity), and (2) limited to 15 minutes per side. For the Court's convenience, the tutorial may be recorded, but will not be part of the record. Parties may not rely on or cite to the tutorial in other aspects of the litigation.

The Court will consider the parties suggestions on the order of argument at the *Markman* hearing. However, if the parties do not suggest a different procedure, the Court will allow the Plaintiff to pick the first term and then alternate by term. As a general rule, if one side proposes "plain and ordinary meaning" as its construction or asserts that a term is indefinite, the other party shall go first.

GENERAL ISSUES

1. The Court does not have a limit on the number of motions for summary judgment (MSJs); however, absent leave of Court, the cumulative page limit for Opening Briefs for all MSJs is 40 pages per side.

2. There may be instances where the submission of substantive briefs via audio file will be of help to the Court. If a party is contemplating submitting a brief via audio file it should contact the Court for guidance on whether it would be helpful to the Court. However, the Court has determined that audio recordings of *Markman* briefs are of limited value and those need not be submitted. The recordings shall be made in a neutral fashion, shall be verbatim transcriptions without additional colloquy (except that citations and legal authority sections need not be included), and each such file shall be served on opposing counsel. The Court does not have a preference for the manner of recording and has found automated software recordings, as well as attorney recordings, to be more than satisfactory. Audio files shall be submitted via USB drive, Box (not another cloud storage), or email to the law clerk (with a cc to opposing counsel) and should be submitted in mp3 format.
3. The Court will entertain reasonable requests to streamline the case schedule and discovery and encourages the parties to contact the Court's law clerk (with opposing counsel) to arrange a call with the Court when such interaction might help streamline the case.
4. The Court is generally willing to extend the response to the Complaint up to 45 days if agreed by the parties. However, longer extensions are disfavored and will require good cause.
5. For *Markman* briefs, summary judgment motions, and *Daubert* motions, each party shall deliver to Chambers one (1) paper copy of its Opening, Response, and Reply Briefs, omitting attachments, no later than one week after the last-filed brief or at least a week before the hearing, whichever is earlier.
6. Plaintiff must file a notice informing the Court when an IPR is filed, the expected time for an institution decision, and the expected time for a final written decision, within two weeks of the filing of the IPR.
7. To the extent the parties need to email the Court, the parties should use the following email address: TXWDm1_LawClerks_JudgeAlbright@txwd.uscourts.gov.

ORDERED this 5th day of October, 2020.



ALAN D ALBRIGHT
UNITED STATES DISTRICT JUDGE

APPENDIX A – DEFAULT SCHEDULE

Deadline	Item
7 days before CMC	Plaintiff serves preliminary ⁴ infringement contentions in the form of a chart setting forth where in the accused product(s) each element of the asserted claim(s) are found. Plaintiff shall also identify the earliest priority date (<i>i.e.</i> the earliest date of invention) for each asserted claim and produce: (1) all documents evidencing conception and reduction to practice for each claimed invention, and (2) a copy of the file history for each patent in suit.
2 weeks after CMC	Deadline for Motions to Transfer.
7 weeks after CMC	Defendant serves preliminary invalidity contentions in the form of (1) a chart setting forth where in the prior art references each element of the asserted claim(s) are found, (2) an identification of any limitations the Defendant contends are indefinite or lack written description under section 112, and (3) an identification of any claims the Defendant contends are directed to ineligible subject matter under section 101. Defendant shall also produce (1) all prior art referenced in the invalidity contentions, (2) technical documents, including software where applicable, sufficient to show the operation of the accused product(s), and (3) summary, annual sales information for the accused product(s) for the two years preceding the filing of the Complaint, unless the parties agree to some other timeframe.
9 weeks after CMC	Parties exchange claim terms for construction.
11 weeks after CMC	Parties exchange proposed claim constructions.
12 weeks after CMC	Parties disclose extrinsic evidence. The parties shall disclose any extrinsic evidence, including the identity of any expert witness they may rely upon with respect to claim construction or indefiniteness. With respect to any expert identified, the parties shall also provide a summary of the witness's expected testimony including the opinions to be expressed and a general description of the basis and reasons therefor. A

⁴ The parties may amend preliminary infringement contentions and preliminary invalidity contentions without leave of court so long as counsel certifies that it undertook reasonable efforts to prepare its preliminary contentions and the amendment is based on material identified after those preliminary contentions were served, and should do so seasonably upon identifying any such material. Any amendment to add patent claims requires leave of court so that the Court can address any scheduling issues.

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	failure to summarize the potential expert testimony in a good faith, informative fashion may result in the exclusion of the proffered testimony. With respect to items of extrinsic evidence, the parties shall identify each such item by production number or produce a copy of any such item if not previously produced.
13 weeks after CMC	Deadline to meet and confer to narrow terms in dispute and exchange revised list of terms/constructions.
14 weeks after CMC	Parties file Opening claim construction briefs, including any arguments that any claim terms are indefinite.
17 weeks after CMC	Parties file Responsive claim construction briefs.
19 weeks after CMC	Parties file Reply claim construction briefs.
20 weeks after CMC	Parties submit Joint Claim Construction Statement. In addition to filing, the parties shall jointly submit, via USB drive, Box (not another cloud storage), ⁵ or email to the law clerk, pdf versions of all as-filed briefing and exhibits. Each party shall deliver to Chambers paper copies of its Opening, Response, and Reply <i>Markman</i> Briefs, omitting attachments. Absent agreement of the parties, the Plaintiff shall be responsible for the timely submission of this and other Joint filings.
23 weeks after CMC (but at least 1 week before Markman hearing)	Parties submit optional technical tutorials. The parties shall also jointly submit, via USB drive, Box (not another cloud storage), or email to the law clerk, pdf versions of all as-filed briefing and exhibits.
24 weeks after CMC (or as soon as practicable)	Markman Hearing at [9:00 a.m. or 1:00 p.m.]
1 business day after Markman hearing	Fact Discovery opens; deadline to serve Initial Disclosures per Rule 26(a).
6 weeks after Markman hearing	Deadline to add parties.
8 weeks after Markman hearing	Deadline to serve Final Infringement and Invalidity Contentions. After this date, leave of Court is required for any amendment to Infringement or Invalidity contentions. This deadline does not relieve the Parties of their obligation to

⁵ To the extent a party wishes to use cloud storage, the parties should contact the law clerk to request a Box link so that the party can directly upload the file to the Court's Box account.

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	seasonably amend if new information is identified after initial contentions.
12 weeks after Markman hearing	Deadline to amend pleadings. A motion is not required unless the amendment adds patents or patent claims.
26 weeks after Markman	Deadline for the first of two meet and confers to discuss significantly narrowing the number of claims asserted and prior art references at issue. Unless the parties agree to the narrowing, they are ordered to contact the Court's Law Clerk to arrange a teleconference with the Court to resolve the disputed issues.
30 weeks after Markman hearing	Close of Fact Discovery.
31 weeks after Markman hearing	Opening Expert Reports.
35 weeks after Markman hearing	Rebuttal Expert Reports.
38 weeks after Markman hearing	Close of Expert Discovery.
39 weeks after Markman hearing	Deadline for the second of two meet and confer to discuss narrowing the number of claims asserted and prior art references at issue to triable limits. To the extent it helps the parties determine these limits, the parties are encouraged to contact the Court's Law Clerk for an estimate of the amount of trial time anticipated per side. The parties shall file a Joint Report within 5 business days regarding the results of the meet and confer.
40 weeks after Markman hearing	Dispositive motion deadline and <i>Daubert</i> motion deadline.
42 weeks after Markman hearing	Serve Pretrial Disclosures (jury instructions, exhibits lists, witness lists, discovery and deposition designations).
44 weeks after Markman hearing	Serve objections to pretrial disclosures/rebuttal disclosures.
45 weeks after Markman hearing	Serve objections to rebuttal disclosures and File Motions <i>in limine</i> .

46 weeks after Markman hearing	File Joint Pretrial Order and Pretrial Submissions (jury instructions, exhibits lists, witness lists, discovery and deposition designations); file oppositions to motions <i>in limine</i>
47 weeks after Markman hearing	File Notice of Request for Daily Transcript or Real Time Reporting. If a daily transcript or real time reporting of court proceedings is requested for trial, the party or parties making said request shall file a notice with the Court and e-mail the Court Reporter, Kristie Davis at kmdaviscsr@yahoo.com Deadline to meet and confer regarding remaining objections and disputes on motions <i>in limine</i> .
3 business days before Final Pretrial Conference.	File joint notice identifying remaining objections to pretrial disclosures and disputes on motions <i>in limine</i> .
49 weeks after Markman hearing (or as soon as practicable)	Final Pretrial Conference. The Court expects to set this date at the conclusion of the <i>Markman</i> Hearing.
52 weeks after Markman hearing (or as soon as practicable) ⁶	Jury Selection/Trial. The Court expects to set these dates at the conclusion of the <i>Markman</i> Hearing.

⁶ If the actual trial date materially differs from the Court's default schedule, the Court will consider reasonable amendments to the case schedule post-*Markman* that are consistent with the Court's default deadlines in light of the actual trial date.